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(FILE 'HOME' ENTERED AT 11:19:16 ON 20 JAN 2006)

FILE 'MEDLINE, EMBASE, BIOSIS, BIOTECHDS, SCISEARCH, HCAPLUS, NTIS, LIFESCI' ENTERED AT 11:19:40 ON 20 JAN 2006

L1 1404722 S KINASE?  
L2 1 S "NRBP2"  
L3 535015 S HUMAN AND L1  
L4 610153 S TYROSINE  
L5 128496 S L3 AND L4  
L6 7491418 S CLON? OR EXPRESS? OR RECOMBINANT  
L7 270906 S L3 AND L6  
L8 2549 S "HUMAN PROTEIN KINASE?"  
L9 1499 S L6 AND L8  
L10 73 S "NIM-A"  
L11 0 S L9 AND L10  
L12 1499 S L1 AND L9  
L13 171423 S L1 AND 10  
L14 2 S L7 AND L10  
L15 0 S "NIMA-2 RELATED PROTEIN KINASE?"  
E WHYTE D/AU  
L16 117 S E3  
E MANNING G/AU  
L17 270 S E3  
E CAENEPEEL S/AU  
L18 96 S E3-E5  
L19 461 S L16 OR L17 OR L18  
L20 4 S L8 AND L19  
L21 4 DUP REM L20 (0 DUPLICATES REMOVED)

=> s l19 and l10

L22 0 L19 AND L10

=>

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FILE 'LIFESCI' ENTERED AT 11:19:40 ON 20 JAN 2006  
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=> s kinase?  
L1 1404722 KINASE?

=> s "NRBP2"  
L2 1 "NRBP2"

=> d all

L2 ANSWER 1 OF 1 HCAPLUS COPYRIGHT 2006 ACS on STN  
AN 2004:60245 HCAPLUS  
DN 140:124563  
ED Entered STN: 26 Jan 2004  
TI Identification, characterization, sequences, diagnostic and drug screening  
use of human and murine protein kinase and lipid kinase sequence homologs  
IN Whyte, David; Manning, Gerard; Caenepeel, Sean  
PA Sugan, Inc., USA  
SO PCT Int. Appl., 366 pp.  
CODEN: PIXXD2  
DT Patent  
LA English  
IC ICM A61K  
CC 7-5 (Enzymes)  
Section cross-reference(s): 1, 3, 13, 63

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2004006838	A2	20040122	WO 2003-US21730	20030715
	W:				
	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN,				
	CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH,				
	GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR,				
	LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM,				
	PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN,				
	TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
	RW:				
	GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY,				
	KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES,				
	FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR,				
	BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
	US 2004197792	A1	20041007	US 2003-618941	20030715

PRAI US 2002-395632P P 20020715

CLASS

PATENT NO.	CLASS	PATENT FAMILY CLASSIFICATION CODES
WO 2004006838	ICM	A61K
	IPCI	A61K [ICM,7]
	ECLA	C12N009/12
US 2004197792	IPCI	C12Q0001-68 [ICM,7]; C07H0021-04 [ICS,7]; C12N0009-12 [ICS,7]
	NCL	435/006.000
	ECLA	C12N009/12

AB The present invention provides 66 human and murine protein kinase and lipid kinase sequence homologs, nucleotide sequences encoding the kinase sequence homologs, as well as various products and methods useful for the diagnosis and treatment of various kinase-related diseases and conditions. Chromosomal mapping, expression profile and SNPs of the kinase genes, and structural motifs of the polypeptides are provided. The invention also provides expression vectors, host cells, antibodies, agonists and antagonists. Through the use of a bioinformatics strategy, mammalian members of the of tyrosine kinases and serine/threonine kinases have been identified and their protein structure predicted.

ST protein lipid kinase homolog sequence diagnosis human mouse; drug screening protein lipid kinase homolog sequence human mouse

IT Gene, animal

RL: ANT (Analyte); BSU (Biological study, unclassified); DGN (Diagnostic use); PRP (Properties); ANST (Analytical study); BIOL (Biological study); USES (Uses)

(AAF23325; identification, characterization, sequences, diagnostic and drug screening use of human and murine protein kinase and lipid kinase sequence homologs)

IT Gene, animal

RL: ANT (Analyte); BSU (Biological study, unclassified); DGN (Diagnostic use); PRP (Properties); ANST (Analytical study); BIOL (Biological study); USES (Uses)

(AF052122; identification, characterization, sequences, diagnostic and drug screening use of human and murine protein kinase and lipid kinase sequence homologs)

IT Gene, animal

RL: ANT (Analyte); BSU (Biological study, unclassified); DGN (Diagnostic use); PRP (Properties); ANST (Analytical study); BIOL (Biological study); USES (Uses)

(BIKE; identification, characterization, sequences, diagnostic and drug screening use of human and murine protein kinase and lipid kinase sequence homologs)

IT Gene, animal

RL: ANT (Analyte); BSU (Biological study, unclassified); DGN (Diagnostic use); PRP (Properties); ANST (Analytical study); BIOL (Biological study); USES (Uses)

(BRD2; identification, characterization, sequences, diagnostic and drug screening use of human and murine protein kinase and lipid kinase sequence homologs)

IT Gene, animal

RL: ANT (Analyte); BSU (Biological study, unclassified); DGN (Diagnostic use); PRP (Properties); ANST (Analytical study); BIOL (Biological study); USES (Uses)

(BRD3; identification, characterization, sequences, diagnostic and drug screening use of human and murine protein kinase and lipid kinase sequence homologs)

IT Gene, animal

RL: ANT (Analyte); BSU (Biological study, unclassified); DGN (Diagnostic use); PRP (Properties); ANST (Analytical study); BIOL (Biological study); USES (Uses)

(BRD4; identification, characterization, sequences, diagnostic and drug screening use of human and murine protein kinase and lipid kinase sequence homologs)

sequence homologs)

IT Gene, animal  
 RL: ANT (Analyte); BSU (Biological study, unclassified); DGN (Diagnostic use); PRP (Properties); ANST (Analytical study); BIOL (Biological study); USES (Uses)  
 (BRDT; identification, characterization, sequences, diagnostic and drug screening use of human and murine protein kinase and lipid kinase sequence homologs)

IT Gene, animal  
 RL: ANT (Analyte); BSU (Biological study, unclassified); DGN (Diagnostic use); PRP (Properties); ANST (Analytical study); BIOL (Biological study); USES (Uses)  
 (BRSK2; identification, characterization, sequences, diagnostic and drug screening use of human and murine protein kinase and lipid kinase sequence homologs)

IT Gene, animal  
 RL: ANT (Analyte); BSU (Biological study, unclassified); DGN (Diagnostic use); PRP (Properties); ANST (Analytical study); BIOL (Biological study); USES (Uses)  
 (CCK4; identification, characterization, sequences, diagnostic and drug screening use of human and murine protein kinase and lipid kinase sequence homologs)

IT Gene, animal  
 RL: ANT (Analyte); BSU (Biological study, unclassified); DGN (Diagnostic use); PRP (Properties); ANST (Analytical study); BIOL (Biological study); USES (Uses)  
 (CKIIa-rs; identification, characterization, sequences, diagnostic and drug screening use of human and murine protein kinase and lipid kinase sequence homologs)

IT Gene, animal  
 RL: ANT (Analyte); BSU (Biological study, unclassified); DGN (Diagnostic use); PRP (Properties); ANST (Analytical study); BIOL (Biological study); USES (Uses)  
 (CKIL2; identification, characterization, sequences, diagnostic and drug screening use of human and murine protein kinase and lipid kinase sequence homologs)

IT Gene, animal  
 RL: ANT (Analyte); BSU (Biological study, unclassified); DGN (Diagnostic use); PRP (Properties); ANST (Analytical study); BIOL (Biological study); USES (Uses)  
 (CNK; identification, characterization, sequences, diagnostic and drug screening use of human and murine protein kinase and lipid kinase sequence homologs)

IT Gene, animal  
 RL: ANT (Analyte); BSU (Biological study, unclassified); DGN (Diagnostic use); PRP (Properties); ANST (Analytical study); BIOL (Biological study); USES (Uses)  
 (CRIK; identification, characterization, sequences, diagnostic and drug screening use of human and murine protein kinase and lipid kinase sequence homologs)

IT Gene, animal  
 RL: ANT (Analyte); BSU (Biological study, unclassified); DGN (Diagnostic use); PRP (Properties); ANST (Analytical study); BIOL (Biological study); USES (Uses)  
 (DCAMKL2; identification, characterization, sequences, diagnostic and drug screening use of human and murine protein kinase and lipid kinase sequence homologs)

IT Gene, animal  
 RL: ANT (Analyte); BSU (Biological study, unclassified); DGN (Diagnostic use); PRP (Properties); ANST (Analytical study); BIOL (Biological study); USES (Uses)  
 (DGK- $\beta$ ; identification, characterization, sequences, diagnostic and drug screening use of human and murine protein kinase and lipid kinase sequence homologs)

IT Gene, animal  
 RL: ANT (Analyte); BSU (Biological study, unclassified); DGN (Diagnostic use); PRP (Properties); ANST (Analytical study); BIOL (Biological study); USES (Uses)  
 (DMPK2; identification, characterization, sequences, diagnostic and drug screening use of human and murine protein kinase and lipid kinase sequence homologs)

IT Gene, animal  
 RL: ANT (Analyte); BSU (Biological study, unclassified); DGN (Diagnostic use); PRP (Properties); ANST (Analytical study); BIOL (Biological study); USES (Uses)  
 (DYRK4; identification, characterization, sequences, diagnostic and drug screening use of human and murine protein kinase and lipid kinase sequence homologs)

IT Gene, animal  
 RL: ANT (Analyte); BSU (Biological study, unclassified); DGN (Diagnostic use); PRP (Properties); ANST (Analytical study); BIOL (Biological study); USES (Uses)  
 (ERK7; identification, characterization, sequences, diagnostic and drug screening use of human and murine protein kinase and lipid kinase sequence homologs)

IT Gene, animal  
 RL: ANT (Analyte); BSU (Biological study, unclassified); DGN (Diagnostic use); PRP (Properties); ANST (Analytical study); BIOL (Biological study); USES (Uses)  
 (H19102; identification, characterization, sequences, diagnostic and drug screening use of human and murine protein kinase and lipid kinase sequence homologs)

IT Gene, animal  
 RL: ANT (Analyte); BSU (Biological study, unclassified); DGN (Diagnostic use); PRP (Properties); ANST (Analytical study); BIOL (Biological study); USES (Uses)  
 (H85389; identification, characterization, sequences, diagnostic and drug screening use of human and murine protein kinase and lipid kinase sequence homologs)

IT Gene, animal  
 RL: ANT (Analyte); BSU (Biological study, unclassified); DGN (Diagnostic use); PRP (Properties); ANST (Analytical study); BIOL (Biological study); USES (Uses)  
 (HIPK1; identification, characterization, sequences, diagnostic and drug screening use of human and murine protein kinase and lipid kinase sequence homologs)

IT Gene, animal  
 RL: ANT (Analyte); BSU (Biological study, unclassified); DGN (Diagnostic use); PRP (Properties); ANST (Analytical study); BIOL (Biological study); USES (Uses)  
 (HIPK4; identification, characterization, sequences, diagnostic and drug screening use of human and murine protein kinase and lipid kinase sequence homologs)

IT Gene, animal  
 RL: ANT (Analyte); BSU (Biological study, unclassified); DGN (Diagnostic use); PRP (Properties); ANST (Analytical study); BIOL (Biological study); USES (Uses)  
 (IP6K1; identification, characterization, sequences, diagnostic and drug screening use of human and murine protein kinase and lipid kinase sequence homologs)

IT Gene, animal  
 RL: ANT (Analyte); BSU (Biological study, unclassified); DGN (Diagnostic use); PRP (Properties); ANST (Analytical study); BIOL (Biological study); USES (Uses)  
 (KIAA1646; identification, characterization, sequences, diagnostic and drug screening use of human and murine protein kinase and lipid kinase sequence homologs)

IT Gene, animal

RL: ANT (Analyte); BSU (Biological study, unclassified); DGN (Diagnostic use); PRP (Properties); ANST (Analytical study); BIOL (Biological study); USES (Uses)

(KSR2; identification, characterization, sequences, diagnostic and drug screening use of human and murine protein kinase and lipid kinase sequence homologs)

IT Gene, animal

RL: ANT (Analyte); BSU (Biological study, unclassified); DGN (Diagnostic use); PRP (Properties); ANST (Analytical study); BIOL (Biological study); USES (Uses)

(KSR; identification, characterization, sequences, diagnostic and drug screening use of human and murine protein kinase and lipid kinase sequence homologs)

IT Gene, animal

RL: ANT (Analyte); BSU (Biological study, unclassified); DGN (Diagnostic use); PRP (Properties); ANST (Analytical study); BIOL (Biological study); USES (Uses)

(LMR1; identification, characterization, sequences, diagnostic and drug screening use of human and murine protein kinase and lipid kinase sequence homologs)

IT Gene, animal

RL: ANT (Analyte); BSU (Biological study, unclassified); DGN (Diagnostic use); PRP (Properties); ANST (Analytical study); BIOL (Biological study); USES (Uses)

(LRRK2; identification, characterization, sequences, diagnostic and drug screening use of human and murine protein kinase and lipid kinase sequence homologs)

IT Gene, animal

RL: ANT (Analyte); BSU (Biological study, unclassified); DGN (Diagnostic use); PRP (Properties); ANST (Analytical study); BIOL (Biological study); USES (Uses)

(MAP2K2; identification, characterization, sequences, diagnostic and drug screening use of human and murine protein kinase and lipid kinase sequence homologs)

IT Gene, animal

RL: ANT (Analyte); BSU (Biological study, unclassified); DGN (Diagnostic use); PRP (Properties); ANST (Analytical study); BIOL (Biological study); USES (Uses)

(MAP3K1; identification, characterization, sequences, diagnostic and drug screening use of human and murine protein kinase and lipid kinase sequence homologs)

IT Gene, animal

RL: ANT (Analyte); BSU (Biological study, unclassified); DGN (Diagnostic use); PRP (Properties); ANST (Analytical study); BIOL (Biological study); USES (Uses)

(MAP3K8; identification, characterization, sequences, diagnostic and drug screening use of human and murine protein kinase and lipid kinase sequence homologs)

IT Gene, animal

RL: ANT (Analyte); BSU (Biological study, unclassified); DGN (Diagnostic use); PRP (Properties); ANST (Analytical study); BIOL (Biological study); USES (Uses)

(MARK2; identification, characterization, sequences, diagnostic and drug screening use of human and murine protein kinase and lipid kinase sequence homologs)

IT Gene, animal

RL: ANT (Analyte); BSU (Biological study, unclassified); DGN (Diagnostic use); PRP (Properties); ANST (Analytical study); BIOL (Biological study); USES (Uses)

(MARK4; identification, characterization, sequences, diagnostic and drug screening use of human and murine protein kinase and lipid kinase sequence homologs)

IT Gene, animal

RL: ANT (Analyte); BSU (Biological study, unclassified); DGN (Diagnostic

use); PRP (Properties); ANST (Analytical study); BIOL (Biological study);  
 USES (Uses)  
 (MAST205; identification, characterization, sequences, diagnostic and  
 drug screening use of human and murine protein kinase and lipid kinase  
 sequence homologs)

IT Gene, animal  
 RL: ANT (Analyte); BSU (Biological study, unclassified); DGN (Diagnostic  
 use); PRP (Properties); ANST (Analytical study); BIOL (Biological study);  
 USES (Uses)  
 (MAST3; identification, characterization, sequences, diagnostic and  
 drug screening use of human and murine protein kinase and lipid kinase  
 sequence homologs)

IT Gene, animal  
 RL: ANT (Analyte); BSU (Biological study, unclassified); DGN (Diagnostic  
 use); PRP (Properties); ANST (Analytical study); BIOL (Biological study);  
 USES (Uses)  
 (MASTL; identification, characterization, sequences, diagnostic and  
 drug screening use of human and murine protein kinase and lipid kinase  
 sequence homologs)

IT Gene, animal  
 RL: ANT (Analyte); BSU (Biological study, unclassified); DGN (Diagnostic  
 use); PRP (Properties); ANST (Analytical study); BIOL (Biological study);  
 USES (Uses)  
 (MSK1; identification, characterization, sequences, diagnostic and drug  
 screening use of human and murine protein kinase and lipid kinase  
 sequence homologs)

IT Gene, animal  
 RL: ANT (Analyte); BSU (Biological study, unclassified); DGN (Diagnostic  
 use); PRP (Properties); ANST (Analytical study); BIOL (Biological study);  
 USES (Uses)  
 (NEK10; identification, characterization, sequences, diagnostic and  
 drug screening use of human and murine protein kinase and lipid kinase  
 sequence homologs)

IT Gene, animal  
 RL: ANT (Analyte); BSU (Biological study, unclassified); DGN (Diagnostic  
 use); PRP (Properties); ANST (Analytical study); BIOL (Biological study);  
 USES (Uses)  
 (NEK1; identification, characterization, sequences, diagnostic and drug  
 screening use of human and murine protein kinase and lipid kinase  
 sequence homologs)

IT Gene, animal  
 RL: ANT (Analyte); BSU (Biological study, unclassified); DGN (Diagnostic  
 use); PRP (Properties); ANST (Analytical study); BIOL (Biological study);  
 USES (Uses)  
 (NEK3; identification, characterization, sequences, diagnostic and drug  
 screening use of human and murine protein kinase and lipid kinase  
 sequence homologs)

IT Gene, animal  
 RL: ANT (Analyte); BSU (Biological study, unclassified); DGN (Diagnostic  
 use); PRP (Properties); ANST (Analytical study); BIOL (Biological study);  
 USES (Uses)  
 (NRBP2; identification, characterization, sequences,  
 diagnostic and drug screening use of human and murine protein kinase  
 and lipid kinase sequence homologs)

IT Gene, animal  
 RL: ANT (Analyte); BSU (Biological study, unclassified); DGN (Diagnostic  
 use); PRP (Properties); ANST (Analytical study); BIOL (Biological study);  
 USES (Uses)  
 (NuaK2; identification, characterization, sequences, diagnostic and  
 drug screening use of human and murine protein kinase and lipid kinase  
 sequence homologs)

IT Gene, animal  
 RL: ANT (Analyte); BSU (Biological study, unclassified); DGN (Diagnostic  
 use); PRP (Properties); ANST (Analytical study); BIOL (Biological study);



USES (Uses)  
(PCTAIRE3; identification, characterization, sequences, diagnostic and drug screening use of human and murine protein kinase and lipid kinase sequence homologs)

IT Gene, animal  
RL: ANT (Analyte); BSU (Biological study, unclassified); DGN (Diagnostic use); PRP (Properties); ANST (Analytical study); BIOL (Biological study); USES (Uses)  
(PFTAIRE2; identification, characterization, sequences, diagnostic and drug screening use of human and murine protein kinase and lipid kinase sequence homologs)

IT Gene, animal  
RL: ANT (Analyte); BSU (Biological study, unclassified); DGN (Diagnostic use); PRP (Properties); ANST (Analytical study); BIOL (Biological study); USES (Uses)  
(PIM2; identification, characterization, sequences, diagnostic and drug screening use of human and murine protein kinase and lipid kinase sequence homologs)

IT Gene, animal  
RL: ANT (Analyte); BSU (Biological study, unclassified); DGN (Diagnostic use); PRP (Properties); ANST (Analytical study); BIOL (Biological study); USES (Uses)  
(PIM3; identification, characterization, sequences, diagnostic and drug screening use of human and murine protein kinase and lipid kinase sequence homologs)

IT Gene, animal  
RL: ANT (Analyte); BSU (Biological study, unclassified); DGN (Diagnostic use); PRP (Properties); ANST (Analytical study); BIOL (Biological study); USES (Uses)  
(PKC\_eta; identification, characterization, sequences, diagnostic and drug screening use of human and murine protein kinase and lipid kinase sequence homologs)

IT Gene, animal  
RL: ANT (Analyte); BSU (Biological study, unclassified); DGN (Diagnostic use); PRP (Properties); ANST (Analytical study); BIOL (Biological study); USES (Uses)  
(PYK; identification, characterization, sequences, diagnostic and drug screening use of human and murine protein kinase and lipid kinase sequence homologs)

IT Gene, animal  
RL: ANT (Analyte); BSU (Biological study, unclassified); DGN (Diagnostic use); PRP (Properties); ANST (Analytical study); BIOL (Biological study); USES (Uses)  
(Pak\_4m; identification, characterization, sequences, diagnostic and drug screening use of human and murine protein kinase and lipid kinase sequence homologs)

IT Gene, animal  
RL: ANT (Analyte); BSU (Biological study, unclassified); DGN (Diagnostic use); PRP (Properties); ANST (Analytical study); BIOL (Biological study); USES (Uses)  
(SCYL2; identification, characterization, sequences, diagnostic and drug screening use of human and murine protein kinase and lipid kinase sequence homologs)

IT Gene, animal  
RL: ANT (Analyte); BSU (Biological study, unclassified); DGN (Diagnostic use); PRP (Properties); ANST (Analytical study); BIOL (Biological study); USES (Uses)  
(SGK069; identification, characterization, sequences, diagnostic and drug screening use of human and murine protein kinase and lipid kinase sequence homologs)

IT Gene, animal  
RL: ANT (Analyte); BSU (Biological study, unclassified); DGN (Diagnostic use); PRP (Properties); ANST (Analytical study); BIOL (Biological study); USES (Uses)

(SGK071; identification, characterization, sequences, diagnostic and drug screening use of human and murine protein kinase and lipid kinase sequence homologs)

IT Gene, animal  
 RL: ANT (Analyte); BSU (Biological study, unclassified); DGN (Diagnostic use); PRP (Properties); ANST (Analytical study); BIOL (Biological study); USES (Uses)  
 (SGK110; identification, characterization, sequences, diagnostic and drug screening use of human and murine protein kinase and lipid kinase sequence homologs)

IT Gene, animal  
 RL: ANT (Analyte); BSU (Biological study, unclassified); DGN (Diagnostic use); PRP (Properties); ANST (Analytical study); BIOL (Biological study); USES (Uses)  
 (SGK493; identification, characterization, sequences, diagnostic and drug screening use of human and murine protein kinase and lipid kinase sequence homologs)

IT Gene, animal  
 RL: ANT (Analyte); BSU (Biological study, unclassified); DGN (Diagnostic use); PRP (Properties); ANST (Analytical study); BIOL (Biological study); USES (Uses)  
 (SK516; identification, characterization, sequences, diagnostic and drug screening use of human and murine protein kinase and lipid kinase sequence homologs)

IT Gene, animal  
 RL: ANT (Analyte); BSU (Biological study, unclassified); DGN (Diagnostic use); PRP (Properties); ANST (Analytical study); BIOL (Biological study); USES (Uses)  
 (SRPK2; identification, characterization, sequences, diagnostic and drug screening use of human and murine protein kinase and lipid kinase sequence homologs)

IT Gene, animal  
 RL: ANT (Analyte); BSU (Biological study, unclassified); DGN (Diagnostic use); PRP (Properties); ANST (Analytical study); BIOL (Biological study); USES (Uses)  
 (STLK6-rs; identification, characterization, sequences, diagnostic and drug screening use of human and murine protein kinase and lipid kinase sequence homologs)

IT Gene, animal  
 RL: ANT (Analyte); BSU (Biological study, unclassified); DGN (Diagnostic use); PRP (Properties); ANST (Analytical study); BIOL (Biological study); USES (Uses)  
 (TLK1; identification, characterization, sequences, diagnostic and drug screening use of human and murine protein kinase and lipid kinase sequence homologs)

IT Gene, animal  
 RL: ANT (Analyte); BSU (Biological study, unclassified); DGN (Diagnostic use); PRP (Properties); ANST (Analytical study); BIOL (Biological study); USES (Uses)  
 (TSSK4; identification, characterization, sequences, diagnostic and drug screening use of human and murine protein kinase and lipid kinase sequence homologs)

IT Gene, animal  
 RL: ANT (Analyte); BSU (Biological study, unclassified); DGN (Diagnostic use); PRP (Properties); ANST (Analytical study); BIOL (Biological study); USES (Uses)  
 (Weelb; identification, characterization, sequences, diagnostic and drug screening use of human and murine protein kinase and lipid kinase sequence homologs)

IT Gene, animal  
 RL: ANT (Analyte); BSU (Biological study, unclassified); DGN (Diagnostic use); PRP (Properties); ANST (Analytical study); BIOL (Biological study); USES (Uses)  
 (Wnk2; identification, characterization, sequences, diagnostic and drug

screening use of human and murine protein kinase and lipid kinase  
sequence homologs)

IT Gene, animal  
RL: ANT (Analyte); BSU (Biological study, unclassified); DGN (Diagnostic  
use); PRP (Properties); ANST (Analytical study); BIOL (Biological study);  
USES (Uses)  
(YAB1; identification, characterization, sequences, diagnostic and drug  
screening use of human and murine protein kinase and lipid kinase  
sequence homologs)

IT Gene, animal  
RL: ANT (Analyte); BSU (Biological study, unclassified); DGN (Diagnostic  
use); PRP (Properties); ANST (Analytical study); BIOL (Biological study);  
USES (Uses)  
(YANK3; identification, characterization, sequences, diagnostic and  
drug screening use of human and murine protein kinase and lipid kinase  
sequence homologs)

IT Gene, animal  
RL: ANT (Analyte); BSU (Biological study, unclassified); DGN (Diagnostic  
use); PRP (Properties); ANST (Analytical study); BIOL (Biological study);  
USES (Uses)  
(ZC1; identification, characterization, sequences, diagnostic and drug  
screening use of human and murine protein kinase and lipid kinase  
sequence homologs)

IT RNA splicing  
(alternative; identification, characterization, sequences, diagnostic  
and drug screening use of human and murine protein kinase and lipid  
kinase sequence homologs)

IT Antibodies and Immunoglobulins  
RL: ARG (Analytical reagent use); BPN (Biosynthetic preparation); DGN  
(Diagnostic use); ANST (Analytical study); BIOL (Biological study); PREP  
(Preparation); USES (Uses)  
(anti-kinase; identification, characterization, sequences, diagnostic  
and drug screening use of human and murine protein kinase and lipid  
kinase sequence homologs)

IT Animal tissue  
(expression profile; identification, characterization, sequences,  
diagnostic and drug screening use of human and murine protein kinase  
and lipid kinase sequence homologs)

IT Test kits  
(for kinase immunoassay; identification, characterization, sequences,  
diagnostic and drug screening use of human and murine protein kinase  
and lipid kinase sequence homologs)

IT Antibodies and Immunoglobulins  
RL: ARG (Analytical reagent use); BPN (Biosynthetic preparation); DGN  
(Diagnostic use); ANST (Analytical study); BIOL (Biological study); PREP  
(Preparation); USES (Uses)  
(fragments, anti-kinase; identification, characterization, sequences,  
diagnostic and drug screening use of human and murine protein kinase  
and lipid kinase sequence homologs)

IT Genetic methods  
(gene discovery; identification, characterization, sequences,  
diagnostic and drug screening use of human and murine protein kinase  
and lipid kinase sequence homologs)

IT Chromosome  
(human, kinase gene mapping to; identification, characterization,  
sequences, diagnostic and drug screening use of human and murine  
protein kinase and lipid kinase sequence homologs)

IT Coiled-coil  
Drug screening  
Genetic mapping  
Human  
Hybridoma  
Molecular cloning  
Mus

Nucleic acid hybridization

Protein motifs

Protein sequences

cDNA sequences

(identification, characterization, sequences, diagnostic and drug screening use of human and murine protein kinase and lipid kinase sequence homologs)

IT Probes (nucleic acid)

RL: ARG (Analytical reagent use); DGN (Diagnostic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)

(identification, characterization, sequences, diagnostic and drug screening use of human and murine protein kinase and lipid kinase sequence homologs)

IT Diagnosis

(mol.; identification, characterization, sequences, diagnostic and drug screening use of human and murine protein kinase and lipid kinase sequence homologs)

IT Transgene

RL: BPN (Biosynthetic preparation); BUU (Biological use, unclassified); BIOL (Biological study); PREP (Preparation); USES (Uses)

(mouse; identification, characterization, sequences, diagnostic and drug screening use of human and murine protein kinase and lipid kinase sequence homologs)

IT Immunoassay

(of kinase; identification, characterization, sequences, diagnostic and drug screening use of human and murine protein kinase and lipid kinase sequence homologs)

IT Gene, animal

RL: ANT (Analyte); BSU (Biological study, unclassified); DGN (Diagnostic use); PRP (Properties); ANST (Analytical study); BIOL (Biological study); USES (Uses)

(pMLK4; identification, characterization, sequences, diagnostic and drug screening use of human and murine protein kinase and lipid kinase sequence homologs)

IT Gene, animal

RL: ANT (Analyte); BSU (Biological study, unclassified); DGN (Diagnostic use); PRP (Properties); ANST (Analytical study); BIOL (Biological study); USES (Uses)

(pNEK5; identification, characterization, sequences, diagnostic and drug screening use of human and murine protein kinase and lipid kinase sequence homologs)

IT Protein motifs

(proline-rich; identification, characterization, sequences, diagnostic and drug screening use of human and murine protein kinase and lipid kinase sequence homologs)

IT Genetic polymorphism

(single nucleotide; identification, characterization, sequences, diagnostic and drug screening use of human and murine protein kinase and lipid kinase sequence homologs)

IT Animal cell line

Phenotypes

(transgenic mouse; identification, characterization, sequences, diagnostic and drug screening use of human and murine protein kinase and lipid kinase sequence homologs)

IT 649167-60-2 649167-61-3

RL: PRP (Properties)

(Unclaimed; identification, characterization, sequences, diagnostic and drug screening use of human and murine protein kinase and lipid kinase sequence homologs)

IT 649166-27-8P 649166-28-9P 649166-29-0P 649166-30-3P 649166-31-4P

649166-32-5P 649166-33-6P 649166-34-7P 649166-35-8P 649166-36-9P

649166-37-0P 649166-38-1P 649166-39-2P 649166-40-5P 649166-41-6P

649166-42-7P 649166-43-8P 649166-44-9P 649166-45-0P 649166-46-1P

649166-47-2P 649166-48-3P 649166-49-4P 649166-50-7P 649166-51-8P

649166-52-9P	649166-53-0P	649166-54-1P	649166-55-2P	649166-56-3P
649166-57-4P	649166-58-5P	649166-59-6P	649166-60-9P	649166-61-0P
649166-62-1P	649166-63-2P	649166-64-3P	649166-65-4P	649166-66-5P
649166-67-6P	649166-68-7P	649166-69-8P	649166-70-1P	649166-71-2P
649166-72-3P	649166-73-4P	649166-74-5P	649166-75-6P	649166-76-7P
649166-77-8P	649166-78-9P	649166-79-0P	649166-80-3P	649166-81-4P
649166-82-5P	649166-83-6P	649166-84-7P	649166-85-8P	649166-86-9P
649166-87-0P	649166-88-1P	649166-89-2P	649166-90-5P	649166-91-6P
649166-92-7P				

RL: ANT (Analyte); BPN (Biosynthetic preparation); BSU (Biological study, unclassified); BUU (Biological use, unclassified); PRP (Properties); ANST (Analytical study); BIOL (Biological study); PREP (Preparation); USES (Uses)

(amino acid sequence; identification, characterization, sequences, diagnostic and drug screening use of human and murine protein kinase and lipid kinase sequence homologs)

IT 190359-87-6, GenBank I37560 206630-87-7, GenBank AB011133 339782-26-2, GenBank BC008771 356387-30-9, GenBank BC013899 366434-82-4, GenBank AK057247 376344-30-8, GenBank AJ311798 418516-86-6, GenBank BC026457

RL: BSU (Biological study, unclassified); PRP (Properties); BIOL (Biological study)

(identification, characterization, sequences, diagnostic and drug screening use of human and murine protein kinase and lipid kinase sequence homologs)

IT	649165-61-7	649165-62-8	649165-63-9	649165-64-0	649165-65-1
	649165-66-2	649165-67-3	649165-68-4	649165-69-5	649165-70-8
	649165-71-9	649165-72-0	649165-73-1	649165-74-2	649165-75-3
	649165-76-4	649165-77-5	649165-78-6	649165-79-7	649165-80-0
	649165-81-1	649165-82-2	649165-83-3	649165-84-4	649165-85-5
	649165-86-6	649165-87-7	649165-88-8	649165-89-9	649165-90-2
	649165-91-3	649165-92-4	649165-93-5	649165-94-6	649165-95-7
	649165-96-8	649165-97-9	649165-98-0	649165-99-1	649166-00-7
	649166-01-8	649166-02-9	649166-03-0	649166-04-1	649166-05-2
	649166-06-3	649166-07-4	649166-08-5	649166-09-6	649166-10-9
	649166-11-0	649166-12-1	649166-13-2	649166-14-3	649166-15-4
	649166-16-5	649166-17-6	649166-18-7	649166-19-8	649166-20-1
	649166-21-2	649166-22-3	649166-23-4	649166-24-5	649166-25-6
	649166-26-7				

RL: ANT (Analyte); BSU (Biological study, unclassified); BUU (Biological use, unclassified); DGN (Diagnostic use); PRP (Properties); ANST (Analytical study); BIOL (Biological study); USES (Uses)

(nucleotide sequence; identification, characterization, sequences, diagnostic and drug screening use of human and murine protein kinase and lipid kinase sequence homologs)

IT 72060-45-8P, Lipid kinase 372092-80-3P, Protein kinase

RL: ANT (Analyte); BPN (Biosynthetic preparation); BSU (Biological study, unclassified); BUU (Biological use, unclassified); PRP (Properties); ANST (Analytical study); BIOL (Biological study); PREP (Preparation); USES (Uses)

(sequence homologs; identification, characterization, sequences, diagnostic and drug screening use of human and murine protein kinase and lipid kinase sequence homologs)

IT	649167-40-8	649167-41-9	649167-42-0	649167-43-1	649167-48-6
	649167-49-7	649167-50-0	649167-51-1	649167-52-2	649167-53-3
	649167-54-4	649167-55-5	649167-56-6	649167-57-7	649167-58-8
	649167-59-9				

RL: PRP (Properties)

(unclaimed sequence; identification, characterization, sequences, diagnostic and drug screening use of human and murine protein kinase and lipid kinase sequence homologs)

=> d his

(FILE 'HOME' ENTERED AT 11:19:16 ON 20 JAN 2006)

FILE 'MEDLINE, EMBASE, BIOSIS, BIOTECHDS, SCISEARCH, HCAPLUS, NTIS, LIFESCI' ENTERED AT 11:19:40 ON 20 JAN 2006

L1 1404722 S KINASE?  
L2 1 S "NRBP2"

=> s human and l1  
L3 535015 HUMAN AND L1

=> s tyrosine  
L4 610153 TYROSINE

=> s l3 and l4  
L5 128496 L3 AND L4

=> s clon? or express? or recombinant  
L6 7491418 CLON? OR EXPRESS? OR RECOMBINANT

=> s l3 and l6  
L7 270906 L3 AND L6

=> s "human protein kinase?"  
MISMATCHED QUOTE '"HUMAN'  
Quotation marks (or apostrophes) must be used in pairs,  
one before and one after the expression you are setting  
off or masking.

=> s "human protein kinase?"  
6 FILES SEARCHED...  
L8 2549 "HUMAN PROTEIN KINASE?"

=> s l6 and l8  
L9 1499 L6 AND L8

=> s "nim-A"  
L10 73 "NIM-A"

=> s l9 and l10  
L11 0 L9 AND L10

=> s l1 and l9  
L12 1499 L1 AND L9

=> s l1 and l0  
L13 171423 L1 AND l0

=> s l7 and l10  
L14 2 L7 AND L10

=> d 1-2 ibib ab

L14 ANSWER 1 OF 2 EMBASE COPYRIGHT (c) 2006 Elsevier B.V. All rights  
reserved on STN

ACCESSION NUMBER: 1999137914 EMBASE

TITLE: Ectopic **expression** of the *Aspergillus nidulans*  
mitotic inducer, *nimA kinase*, in megakaryocytes:  
Effect on polyploidization.

AUTHOR: Sun S.; Kaluzhny Y.; Ravid K.

CORPORATE SOURCE: K. Ravid, Department of Biochemistry, Boston University  
School of Medicine, 715 Albany Street, Boston, MA 02118,  
United States. shishinn@acs.bu.edu

SOURCE: Experimental Hematology, (1999) Vol. 27, No. 4, pp.  
594-604.

Refs: 58  
 ISSN: 0301-472X CODEN: EXHEBH  
 PUBLISHER IDENT.: S 0301-472X(98)00079-4  
 COUNTRY: United States  
 DOCUMENT TYPE: Journal; Article  
 FILE SEGMENT: 004 Microbiology  
 025 Hematology  
 LANGUAGE: English  
 SUMMARY LANGUAGE: English  
 ENTRY DATE: Entered STN: 19990512  
 Last Updated on STN: 19990512

AB *Aspergillus nidulans* nimA gene encodes a serine/threonine protein kinase (NIMA) whose activity is essential for mitotic entry and chromatin condensation. Both the activity and the abundance of NIMA protein increase at the G2/M transition of the fungal cell cycle. In this study, we report the effects elicited by ectopic expression of nimA on polyploidization in a mouse megakaryocytic line, Y10, which is undergoing an endomitotic cell cycle. A pool of Y10 stable transfectants that have been induced to express nimA displayed a decrease in cell number and an elevated DNA content per cell. NIMA also dramatically enhanced the activity of phorbol 12-myristate 13-acetate toward polyploidization. Analysis of individual nimA transfectants revealed that the DNA content per cell rose in cells expressing high levels of nimA and that the level of cyclin B was reduced as compared to the mock-transfected cells. These effects observed in polyploidizing megakaryocytes are in contrast to those found in *A. nidulans* and HeLa cells, in which induced nimA expression caused abnormal chromatin condensation and cell cycle arrest. We conclude that high-level expression of nimA in cells programmed to undergo endomitosis could potentiate polyploidization. The challenge now resides in the isolation of the authentic megakaryocyte counterpart of the fungal nimA.

L14 ANSWER 2 OF 2 SCISEARCH COPYRIGHT (c) 2006 The Thomson Corporation on STN

ACCESSION NUMBER: 1999:55290 SCISEARCH  
 THE GENUINE ARTICLE: 157HU  
 TITLE: Enhancement of phosphorylation and transcriptional activity of the glucocorticoid receptor in human synovial fibroblasts by nimesulide, a preferential cyclooxygenase 2 inhibitor  
 AUTHOR: Di Battista J A; Zhang M K; Martel-Pelletier J; Fernandes J; Alaaeddine N; Pelletier J P (Reprint)  
 CORPORATE SOURCE: Hop Notre Dame, Ctr Rech LC Simard, Unite Rech Arthrose, Room Y-2626, 1560 Rue Sherbrooke Est, Montreal, PQ H2L 4M1, Canada (Reprint); Univ Montreal, Ctr Hosp, Ctr Rech LC Simard, Montreal, PQ, Canada  
 COUNTRY OF AUTHOR: Canada  
 SOURCE: ARTHRITIS AND RHEUMATISM, (JAN 1999) Vol. 42, No. 1, pp. 157-166.  
 ISSN: 0004-3591.  
 PUBLISHER: WILEY-LISS, DIV JOHN WILEY & SONS INC, 605 THIRD AVE, NEW YORK, NY 10158-0012 USA.  
 DOCUMENT TYPE: Article; Journal  
 LANGUAGE: English  
 REFERENCE COUNT: 43  
 ENTRY DATE: Entered STN: 1999  
 Last Updated on STN: 1999

\*ABSTRACT IS AVAILABLE IN THE ALL AND IALL FORMATS\*

AB Objective. To examine the effect of 2 nonsteroidal antiinflammatory drugs (NSAIDs), nimesulide (NIM), a preferential cyclooxygenase 2 (COX-2) inhibitor, and naproxen (NAP), on the functional parameters and transcriptional activity of the glucocorticoid receptor (GR) system in cultured human synovial fibroblasts (HSF).  
 Methods. HSF were incubated with NIR,I (0.3, 3, and 30 mu g/ml), NAP

(15, 30, and 90  $\mu$ g/ml), and dexamethasone (DEX; 0.01, 0.1, and 1  $\mu$ M) on a time- and dose-dependent basis. The numbers of GR binding sites per cell were determined by radioligand receptor assay. Total cellular, cytoplasmic, or nuclear GR protein was measured by Western analysis using a specific anti-human GR antibody. Phosphorylation of GR was determined by specific immunoprecipitation of protein extracts from P-32-orthophosphate-labeled HSF. Mitogen-activated protein kinase p44/42 (MAPK) phosphorylation was followed by Western analysis using a specific anti-phosphoMAPK antibody. Levels of activated nuclear GR capable of binding specifically to a P-32-labeled oligonucleotide harboring the glucocorticoid/hormone response element (GRE) were evaluated by gel electrophoretic mobility shift analysis. The effects of NIM and DEX on transcriptional activation of the mouse mammary tumor virus (MMTV) promoter was determined by transfecting HSF with MMTV-luciferase (reporter gene) constructs.

**Results.** NIM had no effect on the number of GR binding sites, in contrast to NAP and DEX. NIM and NAP did not influence cellular GR protein levels or nucleocytoplasmic shuttling, although DEX lowered GR messenger RNA and protein levels after 48 hours. NIM, but not NAP, markedly increased MAPK phosphorylation (suggesting an increase in MAPK cascade activity), GR phosphorylation, GR binding to GRE, and transcriptional activation of MMTV promoter through the GRE site in the promoter.

**Conclusion.** This study is the first to report that the antiinflammatory effects of NIM, an NSAID, may be partly related to its activation of the GR system.

=> d his

(FILE 'HOME' ENTERED AT 11:19:16 ON 20 JAN 2006)

FILE 'MEDLINE, EMBASE, BIOSIS, BIOTECHDS, SCISEARCH, HCAPLUS, NTIS, LIFESCI' ENTERED AT 11:19:40 ON 20 JAN 2006

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L1      1404722 S KINASE?
L2      1 S "NRBP2"
L3      535015 S HUMAN AND L1
L4      610153 S TYROSINE
L5      128496 S L3 AND L4
L6      7491418 S CLON? OR EXPRESS? OR RECOMBINANT
L7      270906 S L3 AND L6
L8      2549 S "HUMAN PROTEIN KINASE?"
L9      1499 S L6 AND L8
L10     73 S "NIM-A"
L11     0 S L9 AND L10
L12     1499 S L1 AND L9
L13     171423 S L1 AND 10
L14     2 S L7 AND L10
```

=> s "Nima-2 related protein kinase?"

```
L15     0 "NIMA-2 RELATED PROTEIN KINASE?"
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=> d his

(FILE 'HOME' ENTERED AT 11:19:16 ON 20 JAN 2006)

FILE 'MEDLINE, EMBASE, BIOSIS, BIOTECHDS, SCISEARCH, HCAPLUS, NTIS, LIFESCI' ENTERED AT 11:19:40 ON 20 JAN 2006

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L1      1404722 S KINASE?
L2      1 S "NRBP2"
L3      535015 S HUMAN AND L1
L4      610153 S TYROSINE
L5      128496 S L3 AND L4
L6      7491418 S CLON? OR EXPRESS? OR RECOMBINANT
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L7 270906 S L3 AND L6  
 L8 2549 S "HUMAN PROTEIN KINASE?"  
 L9 1499 S L6 AND L8  
 L10 73 S "NIM-A"  
 L11 0 S L9 AND L10  
 L12 1499 S L1 AND L9  
 L13 171423 S L1 AND 10  
 L14 2 S L7 AND L10  
 L15 0 S "NIMA-2 RELATED PROTEIN KINASE?"

=> e whyte d/au

E1 1 WHYTE COLIN G/AU  
 E2 1 WHYTE CRAIG/AU  
 E3 117 --> WHYTE D/AU  
 E4 39 WHYTE D A/AU  
 E5 49 WHYTE D B/AU  
 E6 4 WHYTE D C/AU  
 E7 15 WHYTE D D/AU  
 E8 4 WHYTE D E/AU  
 E9 3 WHYTE D F/AU  
 E10 263 WHYTE D G/AU  
 E11 6 WHYTE D G C/AU  
 E12 1 WHYTE D K/AU

=> s e3

L16 117 "WHYTE D"/AU

=> e manning g/au

E1 6 MANNING FREDERICK J/AU  
 E2 1 MANNING FREDRICK J/AU  
 E3 270 --> MANNING G/AU  
 E4 1 MANNING G A/AU  
 E5 24 MANNING G B/AU  
 E6 30 MANNING G C/AU  
 E7 7 MANNING G C JR/AU  
 E8 4 MANNING G D/AU  
 E9 12 MANNING G E/AU  
 E10 2 MANNING G F/AU  
 E11 9 MANNING G H/AU  
 E12 3 MANNING G J/AU

=> s e3

L17 270 "MANNING G"/AU

=> e caenepeel s/au

E1 2 CAENEPEEL PH/AU  
 E2 17 CAENEPEEL PHILIP/AU  
 E3 75 --> CAENEPEEL S/AU  
 E4 2 CAENEPEEL S R/AU  
 E5 19 CAENEPEEL SEAN/AU  
 E6 1 CAENERS B/AU  
 E7 1 CAENERS BERND/AU  
 E8 1 CAENG C/AU  
 E9 3 CAENN R/AU  
 E10 1 CAENN RYAN/AU  
 E11 1 CAENN RYEN/AU  
 E12 3 CAENO G/AU

=> s e3-e5

L18 96 ("CAENEPEEL S"/AU OR "CAENEPEEL S R"/AU OR "CAENEPEEL SEAN"/AU)

=> d his

(FILE 'HOME' ENTERED AT 11:19:16 ON 20 JAN 2006)

FILE 'MEDLINE, EMBASE, BIOSIS, BIOTECHDS, SCISEARCH, HCAPLUS, NTIS,  
LIFESCI' ENTERED AT 11:19:40 ON 20 JAN 2006

L1 1404722 S KINASE?  
L2 1 S "NRBP2"  
L3 535015 S HUMAN AND L1  
L4 610153 S TYROSINE  
L5 128496 S L3 AND L4  
L6 7491418 S CLON? OR EXPRESS? OR RECOMBINANT  
L7 270906 S L3 AND L6  
L8 2549 S "HUMAN PROTEIN KINASE?"  
L9 1499 S L6 AND L8  
L10 73 S "NIM-A"  
L11 0 S L9 AND L10  
L12 1499 S L1 AND L9  
L13 171423 S L1 AND L10  
L14 2 S L7 AND L10  
L15 0 S "NIMA-2 RELATED PROTEIN KINASE?"  
E WHYTE D/AU  
L16 117 S E3  
E MANNING G/AU  
L17 270 S E3  
E CAENEPEEL S/AU  
L18 96 S E3-E5

=> s l16 or l17 or l18  
L19 461 L16 OR L17 OR L18

=> s l8 and l19  
L20 4 L8 AND L19

=> dup rem l20  
PROCESSING COMPLETED FOR L20  
L21 4 DUP REM L20 (0 DUPLICATES REMOVED)

=> d 1-4 ibib ab

L21 ANSWER 1 OF 4 HCAPLUS COPYRIGHT 2006 ACS on STN  
ACCESSION NUMBER: 2005:14134 HCAPLUS  
DOCUMENT NUMBER: 142:109444  
TITLE: Protein and cDNA sequences of 114 novel human  
protein kinase sequence homologs,  
and diagnostic and therapeutic use  
INVENTOR(S): Caenepeel, Sean; Manning, Gerard;  
Charydczak, Glen; Grigoriev, Igor  
PATENT ASSIGNEE(S): Sugan, Inc., USA  
SOURCE: PCT Int. Appl., 300 pp.  
CODEN: PIXXD2  
DOCUMENT TYPE: Patent  
LANGUAGE: English  
FAMILY ACC. NUM. COUNT: 1  
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2005000200	A2	20050106	WO 2004-US14421	20040507
W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW			
RW:	BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK,			

EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE,  
SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE,  
SN, TD, TG

US 2005125852            A1            20050609            US 2004-840512            20040507  
PRIORITY APPLN. INFO.:            US 2003-469014P            P            20030509  
AB    The present invention relates to kinase polypeptides, nucleotide sequences  
      encoding the kinase polypeptides, as well as various products and methods  
      useful for the diagnosis and treatment of various kinase-related diseases  
      and conditions. Through the use of a bioinformatics strategy, mammalian  
      members of protein and lipid kinase families have been identified and  
      their protein structure predicted.

L21 ANSWER 2 OF 4 HCAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 2002:921133 HCAPLUS  
DOCUMENT NUMBER: 138:199895  
TITLE: The Protein Kinase Complement of the Human Genome  
AUTHOR(S): Manning, G.; Whyte, D. B.; Martinez, R.;  
Hunter, T.; Sudarsanam, S.  
CORPORATE SOURCE: SUGEN Inc., South San Francisco, CA, 94080, USA  
SOURCE: Science (Washington, DC, United States) (2002),  
298(5600), 1912-1916, 1933-1934  
CODEN: SCIEAS; ISSN: 0036-8075  
PUBLISHER: American Association for the Advancement of Science  
DOCUMENT TYPE: Journal  
LANGUAGE: English

AB We have catalogued the protein kinase complement of the human genome (the "kinome") using public and proprietary genomic, complementary DNA, and expressed sequence tag (EST) sequences. This provides a starting point for comprehensive anal. of protein phosphorylation in normal and disease states, as well as a detailed view of the current state of human genome anal. through a focus on one large gene family. We identify 518 putative protein kinase genes, of which 71 have not previously been reported or described as kinases, and we extend or correct the protein sequences of 56 more kinases. New genes include members of well-studied families as well as previously unidentified families, some of which are conserved in model organisms. Classification and comparison with model organism kinomes identified orthologous groups and highlighted expansions specific to human and other lineages. We also identified 106 protein kinase pseudogenes. Chromosomal mapping revealed several small clusters of kinase genes and revealed that 244 kinases map to disease loci or cancer amplicons.

REFERENCE COUNT: 38 THERE ARE 38 CITED REFERENCES AVAILABLE FOR THIS  
RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L21 ANSWER 3 OF 4 BIOTECHDS COPYRIGHT 2006 THE THOMSON CORP. on STN

ACCESSION NUMBER: 2002-00501 BIOTECHDS  
TITLE: Novel human protein-kinases and protein-kinase-like enzymes for treating and diagnosing various kinase-related diseases and conditions; vector-mediated gene transfer, expression in host cell, monoclonal antibody, hybridoma and DNA probe for recombinant protein production, drug screening and disease therapy and diagnosis

AUTHOR: Plowman G D; Whyte D; Manning G;  
Sudarsanam S; Martinez R

PATENT ASSIGNEE: Sugen  
LOCATION: South San Francisco, CA, USA.  
PATENT INFO: WO 2001066594 13 Sep 2001  
APPLICATION INFO: WO 2001-US6838 2 Mar 2001  
PRIORITY INFO: US 2000-247013 13 Nov 2000; US 2000-187150 6 Mar 2000  
DOCUMENT TYPE: Patent  
LANGUAGE: English  
OTHER SOURCE: WPI: 2001-536777 [59]

AB A DNA (I, having defined DNA sequence given in the specification) capable of encoding human protein-kinases

(EC-2.7.1.37) or protein-kinase-like proteins (II, having defined protein sequence given in the specification) are claimed. Also claimed are: a recombinant cell containing (I) encoding a protein-kinase having the sequence of (II); a hybridoma which produces a monoclonal antibody which specifically binds to (II); a kit containing an antibody which binds to (II); identifying a substance that modulates the activity of a protein-kinase; treating a disease or disorder by administering to a patient a substance that modulates the activity of a protein-kinase having the protein sequence of (II); and detection of a protein-kinase in a sample as a diagnostic tool for a disease using a DNA probe. (I) is capable of encoding human protein-kinases or protein-kinase-like proteins is used for detection of DNA encoding a protein-kinase in a sample. The protein-kinases are useful for diagnosis and treatment of a disease selected from cancer, immune disease, cardiovascular disease, neurological disease, virus or bacterium infection and organ transplant rejection. (201pp)

L21 ANSWER 4 OF 4 HCAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 2001:763200 HCAPLUS

DOCUMENT NUMBER: 135:328144

TITLE: Novel human protein and cDNA sequences of kinases and its therapeutic use

INVENTOR(S): Plowman, Gregory; Whyte, David; Manning, Gerard; Sudarsanam, Sucha; Martinez, Ricardo; Caenepeel, Sean

PATENT ASSIGNEE(S): Sugan, Inc., USA

SOURCE: PCT Int. Appl., 167 pp.

CODEN: PIXXD2

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PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2001077338	A2	20011018	WO 2001-US11675	20010410
WO 2001077338	A3	20020829		
W:				
AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CO, CU, CZ, DE, DK, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW:				
GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
CA 2404971	AA	20011018	CA 2001-2404971	20010410
EP 1278859	A2	20030129	EP 2001-924901	20010410
R:				
AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR				
JP 2003530110	T2	20031014	JP 2001-575192	20010410
US 2003224378	A1	20031204	US 2003-240315	20030225
PRIORITY APPLN. INFO.:			US 2000-195953P	P 20000410
			US 2000-201015P	P 20000501
			US 2000-213805P	P 20000622
			WO 2001-US11675	W 20010410

AB The present invention relates to kinase polypeptides, nucleotide sequences encoding the kinase polypeptides, as well as various products and methods useful for the diagnosis and treatment of various kinase-related diseases and conditions. Through the use of a bioinformatics strategy, mammalian members of the of PTK's and STK's have been identified and their protein structure predicted.

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(FILE 'HOME' ENTERED AT 11:19:16 ON 20 JAN 2006)

FILE 'MEDLINE, EMBASE, BIOSIS, BIOTECHDS, SCISEARCH, HCAPLUS, NTIS, LIFESCI' ENTERED AT 11:19:40 ON 20 JAN 2006

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L1      1404722 S KINASE?
L2      1 S "NRBP2"
L3      535015 S HUMAN AND L1
L4      610153 S TYROSINE
L5      128496 S L3 AND L4
L6      7491418 S CLON? OR EXPRESS? OR RECOMBINANT
L7      270906 S L3 AND L6
L8      2549 S "HUMAN PROTEIN KINASE?"
L9      1499 S L6 AND L8
L10     73 S "NIM-A"
L11     0 S L9 AND L10
L12     1499 S L1 AND L9
L13     171423 S L1 AND 10
L14     2 S L7 AND L10
L15     0 S "NIMA-2 RELATED PROTEIN KINASE?"
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L16     117 S E3
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L17     270 S E3
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L18     96 S E3-E5
L19     461 S L16 OR L17 OR L18
L20     4 S L8 AND L19
L21     4 DUP REM L20 (0 DUPLICATES REMOVED)
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=> s l19 and l10

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L22     0 L19 AND L10
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	Issue Date	Page s	Document ID	Title
1	20050609	215	US 2005012585 2 A1	Novel kinases
2	20041007	190	US 2004019779 2 A1	Novel Kinases

	Issue Date	Page s	Document ID	Title
1	20050707	21	US 2005014803 1 A1	Catalytic efficiency and/or specificity of non-native substrates of enzymes
2	20050616	97	US 2005013122 2 A1	Nucleotide sequence of the haemophilus influenzae Rd genome, fragments thereof, and uses thereof
3	20050609	215	US 2005012585 2 A1	Novel kinases
4	20041014	96	US 2004020309 3 A1	NUCLEOTIDE SEQUENCE OF THE HAEMOPHILUS INFLUENZAE RD GENOME, FRAGMENTS THEREOF, AND USES THEREOF
5	20041007	190	US 2004019779 2 A1	Novel Kinases
6	20040129	97	US 2004001850 3 A1	Nucleotide sequence of the haemophilus influenza Rd genome, fragments thereof, and uses thereof
7	20040115	484	US 2004000947 9 A1	Methods and compositions for diagnosing or monitoring auto immune and chronic inflammatory diseases
8	20030911	83	US 2003017066 3 A1	Nucleotide sequence of the Mycoplasma genitalium genome, fragments thereof, and uses thereof
9	20050614	470	US 6905827 B2	Methods and compositions for diagnosing or monitoring auto immune and chronic inflammatory diseases

	Issue Date	Page s	Document ID	Title
10	20050125	93	US 6846651 B2	Nucleotide sequence of the Haemophilus influenzae Rd genome, fragments thereof, and uses thereof
11	20030325	226	US 6537773 B1	Nucleotide sequence of the mycoplasma genitalium genome, fragments thereof, and uses thereof
12	20030304	91	US 6528289 B1	Nucleotide sequence of the Haemophilus influenzae Rd genome, fragments thereof, and uses thereof
13	20030114	92	US 6506581 B1	Nucleotide sequence of the Haemophilus influenzae Rd genome, fragments thereof, and uses thereof
14	20021022	35	US 6468765 B1	Selected Haemophilus influenzae Rd polynucleotides and polypeptides
15	20020312	96	US 6355450 B1	Computer readable genomic sequence of Haemophilus influenzae Rd, fragments thereof, and uses thereof



	Issue Date	Page s	Document ID	Title
1	20050707	21	US 2005014803 1 A1	Catalytic efficiency and/or specificity of non-native substrates of enzymes
2	20050609	215	US 2005012585 2 A1	Novel kinases
3	20041007	190	US 2004019779 2 A1	Novel Kinases
4	20040115	484	US 2004000947 9 A1	Methods and compositions for diagnosing or monitoring auto immune and chronic inflammatory diseases
5	20030911	83	US 2003017066 3 A1	Nucleotide sequence of the Mycoplasma genitalium genome, fragments thereof, and uses thereof
6	20050614	470	US 6905827 B2	Methods and compositions for diagnosing or monitoring auto immune and chronic inflammatory diseases
7	20030325	226	US 6537773 B1	Nucleotide sequence of the mycoplasma genitalium genome, fragments thereof, and uses thereof

	Issue Date	Page s	Document ID	Title
1	20060105	59	US 2006000397 0 A1	Novel combi- molecules having EGFR and DNA targeting properties
2	20051229	95	US 2005028757 6 A1	Identification, monitoring and treatment of disease and characterization of biological condition using gene expression profiles
3	20051229	42	US 2005028754 4 A1	Gene expression profiling of colon cancer with DNA arrays
4	20051229	42	US 2005028714 4 A1	Derivatives of the il-2 receptor gamma chain, their production and use
5	20051208	40	US 2005027263 3 A1	Derivatives of the nf-kappab inducing enzyme, their preparation and use
6	20051117	307	US 2005025545 8 A1	Drug discovery assays based on the biology of chronic disease
7	20051117	358	US 2005025511 4 A1	Methods and diagnosis for the treatment of preeclampsia
8	20051110	50	US 2005025073 9 A1	Pharmaceutical dopamine glycoconjugate compositions and methods of their preparation and use
9	20051110	94	US 2005025014 8 A1	Identification, monitoring and treatment of disease and characterization of biological condition using gene expression profiles
10	20051006	80	US 2005022134 2 A1	Nucleic acids and polypeptides

	Issue Date	Pages	Document ID	Title
11	20050929	15	US 2005021554 7 A1	Optically active pyridine derivative and a medicament containing the same
12	20050915	60	US 2005020242 2 A1	Novel nucleic acids and polypeptides
13	20050908	53	US 2005019681 4 A1	Human suppressor of fused
14	20050630	51	US 2005014466 1 A1	Imaging regulated protein-protein interactions in cells and living animals by enhanced luciferase protein fragment complementation
15	20050616	47	US 2005013023 0 A1	Cellular fibronectin as a diagnostic marker in stroke and methods of use thereof
16	20050609	215	US 2005012585 2 A1	Novel kinases
17	20050210	67	US 2005003272 6 A1	Uses of DNA-PK
18	20050203	316	US 2005002618 2 A1	Human CDNAS and proteins and uses thereof
19	20050106	38	US 2005000336 3 A1	Method of screening for agents inhibiting chloride intracellular channels
20	20050106	212	US 2005000334 1 A1	Drug discovery assays based on the biology of atherosclerosis, cancer, and alopecia

21	20041216	67	US 2004025409 4 A1	Suppression of cyclin kinase activity for prevention and treatment of infections
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	Issue Date	Pages	Document ID	Title
22	20041104	168	US 2004021951 5 A1	BIOINFORMATICALLY DETECTABLE GROUP OF NOVEL HIV REGULATORY GENES AND USES THEREOF
23	20041007	24	US 2004019866 3 A1	Method of treating cardiac ischemia by using erythropoietin
24	20041007	190	US 2004019779 2 A1	Novel Kinases
25	20040715	113	US 2004013757 7 A1	B7-H2 molecules, novel members of the B7 family and uses thereof
26	20040715	17	US 2004013752 2 A1	Genes and proteins altering Tau-related neurodegeneration
27	20040708	96	US 2004013335 2 A1	Identification, monitoring and treatment of disease and characterization of biological condition using gene expression profiles
28	20040520	57	US 2004009756 3 A1	4-6-Diphenyl pyridine derivatives as antiinflammatory agents
29	20040408	51	US 2004006795 3 A1	Combination therapy for treating, preventing or managing proliferative disorders and cancers
30	20040318	243	US 2004005324 8 A1	Novel nucleic acids and polypeptides
31	20040318	287	US 2004005324 5 A1	Novel nucleic acids and polypeptides
32	20040311	152	US 2004004831 0 A1	Novel human protein kinases and protein kinase-like enzymes

33	20040311	267	US 2004004824 9 A1	Novel nucleic acids and secreted polypeptides
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	Issue Date	Page s	Document ID	Title
34	20040304	198	US 2004004418 1 A1	Novel nucleic acids and polypeptides
35	20040212	277	US 2004002921 6 A1	Proteins, polynucleotides encoding them and methods of using the same
36	20040205	63	US 2004002276 4 A1	Inhibition of microcompetition with a foreign polynucleotide as treatment of chronic disease
37	20040129	311	US 2004001852 8 A1	Novel biomarkers of tyrosine kinase inhibitor exposure and activity in mammals
38	20040115	175	US 2004000916 7 A1	Anti-pathogen treatments
39	20031225	65	US 2003023588 3 A1	Novel nucleic acids and polypeptides
40	20031204	154	US 2003022437 9 A1	Novel nucleic acids and polypeptides
41	20031127	12	US 2003022048 6 A1	Mixed backbone oligonucleotides containing pops blocks to obtain reduced phosphorothioate content
42	20031127	96	US 2003021977 1 A1	Identification, monitoring and treatment of disease and characterization of biological condition using gene expression profiles
43	20031113	86	US 2003021198 9 A1	Novel human protein kinases and protein kinase-like enzymes

44	20031030	74	US 2003020386 7 A1	NIP3 family of proteins
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	Issue Date	Pages	Document ID	Title
45	20031023	305	US 2003019895 4 A1	Human cDNAs and proteins and uses thereof
46	20031016	155	US 2003019469 6 A1	Methods of producing a library and methods of selecting polynucleotides of interest
47	20030918	57	US 2003017643 7 A1	Anti-inflammatory and protein kinase inhibitor compositions and related methods for downregulation of detrimental cellular responses and inhibition of cell death
48	20030911	310	US 2003017062 8 A1	Human cDNAs and proteins and uses thereof
49	20030828	35	US 2003016273 4 A1	Modulation of DENN-MADD expression and interactions for treating neurological disorders
50	20030828	308	US 2003016218 6 A1	Human cDNAs and proteins and uses thereof
51	20030821	307	US 2003015748 5 A1	Human cDNAs and proteins and uses thereof
52	20030619	63	US 2003011389 7 A1	Mutant p21Cip1/WAF1 and cell growth control and cell growth control
53	20030619	82	US 2003011377 2 A1	DNA encoding human alpha 1 adrenergic receptors and uses thereof
54	20030619	82	US 2003011377 1 A1	DNA encoding human alpha 1 adrenergic receptors and uses thereof

	Issue Date	Pages	Document ID	Title
55	20030605	168	US 2003010435 8 A1	Diagnosis methods based on microcompetition for a limiting GABP complex
56	20030522	99	US 2003009627 9 A1	Novel nucleic acids and polypeptides
57	20030522	305	US 2003009624 7 A1	Human cDNAs and proteins and uses thereof
58	20030515	305	US 2003009201 1 A1	Human cDNAs and proteins and uses thereof
59	20030501	59	US 2003008327 6 A1	Uses of DNA-PK
60	20030206	305	US 2003002724 8 A1	Human cDNAs and proteins and uses thereof
61	20030206	306	US 2003002716 1 A1	Human cDNAs and proteins and uses thereof
62	20030130	137	US 2003002215 7 A1	Methods of producing a library and methods of selecting polynucleotides of interest
63	20021128	69	US 2002017720 5 A1	Mammalian alpha-kinase proteins, nucleic acids and diagnostic and therapeutic uses thereof
64	20021010	79	US 2002014675 7 A1	Novel nucleic acids and polypeptides
65	20020808	101	US 2002010673 0 A1	B7-H2 molecules, novel members of the B7 family and uses thereof
66	20020214	27	US 2002001951 9 A1	KIAA0551 polynucleotides and polypeptides use

	Issue Date	Pages	Document ID	Title
67	20011206	12	US 2001004943 6 A1	MIXED-BACKBONE OLIGONUCLEOTIDES CONTAINING POPS BLOCKS TO OBTAIN REDUCED PHOSPHOROTHIOATE CONTENT
68	20060110	146	US 6984649 B1	Pyridine derivatives
69	20051115	91	US 6964850 B2	Identification, monitoring and treatment of disease and characterization of biological condition using gene expression profiles
70	20051115	264	US 6964849 B2	Proteins and nucleic acids encoding same
71	20051101	90	US 6960439 B2	Identification, monitoring and treatment of disease and characterization of biological condition using gene expression profiles
72	20050809	206	US 6926898 B2	Albumin fusion proteins
73	20050510	56	US 6890716 B1	Recombinant cell line and screening method for identifying agents which regulate apoptosis and tumor suppression
74	20050308	86	US 6863888 B2	Oncoprotein protein kinase
75	20050125	85	US 6846644 B2	Oncoprotein protein kinase
76	20040921	285	US 6794363 B2	Isolated amyloid inhibitor protein (AIP) and compositions thereof
77	20040831	93	US 6783969 B1	Cathepsin V-like polypeptides

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78	20040120	249	US 6680170 B2	Polynucleotides encoding STE20-related protein kinases and methods of use
79	20031202	248	US 6656716 B1	Polypeptide fragments of human PAK5 protein kinase
80	20031111	28	US 6645728 B2	Inhibitor of the inflammatory response induced by TNF.alpha. and IL-1
81	20031021	98	US 6635750 B1	B7-H2 nucleic acids, members of the B7 family
82	20031007	108	US 6630575 B2	B7-H2 Polypeptides
83	20030826	93	US 6610536 B2	Nucleic acids and polypeptides
84	20030513	143	US 6562811 B1	Pyridine derivatives
85	20030225	22	US 6524821 B1	Anti-apoptotic compositions comprising the R1 subunit of herpes simplex virus ribonucleotide reductase or its N-terminal portion; and uses thereof
86	20021217	80	US 6495661 B1	DNA encoding the outer membrane protein of Pasteurella multocida
87	20021029	50	US 6472142 B1	Methods and means for inducing apoptosis by interfering with Bip-like proteins
88	20020910	78	US 6448011 B1	DNA encoding human alpha 1 adrenergic receptors and uses thereof

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89	20020402	39	US 6365347 B1	Method for identifying disruptors of biological pathways using genetic selection
90	20020305	16	US 6352833 B1	Methods for discovery of vasoactive compounds for the nitric oxide-cyclic GMP signal pathway
91	20011023	42	US 6307090 B1	Acylated oligopeptide derivatives having cell signal inhibiting activity
92	20011016	32	US 6303335 B1	Transcription factor E2F-4
93	20010821	27	US 6277979 B1	KIAA0551 polynucleotides and polypeptides use
94	20001205	79	US 6156518 A	Methods of using DNA encoding human alpha 1 adrenergic receptors
95	20000829	58	US 6111089 A	Trophinin, trophinin-assisting proteins and methods to inhibit implantation
96	20000815	88	US 6103492 A	Polynucleotide encoding mu opioid receptor
97	20000704	83	US 6083705 A	DNA encoding human .alpha. 1 adrenergic receptors and uses thereof
98	20000404	32	US 6045999 A	Transcription factor E2F-4
99	20000125	105	US 6017734 A	Unique nucleotide and amino acid sequence and uses thereof
100	19991130	39	US 5994402 A	Anti-inflammatory and anti-pyretic method

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101	19991116	20	US 5985283 A	Adenovirus E1A-Associated protein BS69, inhibitor of E1A-transactivation
102	19990119	80	US 5861309 A	DNA encoding human alpha 1 adrenergic receptors
103	19990119	72	US 5861259 A	Immunoassays for human cyclin E
104	19980915	63	US 5807698 A	Human cyclin E
105	19980721	72	US 5783661 A	Human cyclin E polypeptides
106	19970708	60	US 5645999 A	Assays for compounds that modulate or alter cyclin E activity
107	19950912	88	US 5449755 A	Human cyclin E

	L #	Hits	Search Text
1	L1	2675 2	protein adj kinase\$2
2	L2	5321 15	human
3	L3	7118	l1 same l2
4	L4	8057 07	clon\$3 or express\$3 or recombinant
5	L5	3482	l3 same l4
6	L6	2	"NRBP2"
7	L7	0	"nima-2"
8	L8	15	"NRBP"
9	L9	7	l1 and l8
10	L10	2170 0	WHYTE CAENEPEEL MANNING
11	L11	107	l5 and l10